CW/HW#77: Scale Drawings Cont.

Geometry

Due: Tuesday, February 9th

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ PD: \_\_

Directions: Complete the following in your notebook!

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| 1. Draw a 30-60-90 triangle. Measure and label the side lengths and angles. Include units. |
| 2. Draw a rectangle, measure and label the side lengths. Calculate the area. Include units. |
| 3. Our classroom is 25ft x 25ft. Ms. Mitrovich and Mr. Madonna take up two corners that are 5ft x 5ft. Measure your desk and design a layout for the classroom. There must be 36 desks. Determine an appropriate scale factor include units. (Use graph paper)   |  |  |  |  | | --- | --- | --- | --- | | Item | Original dimensions | Scale factor | Scaled dimensions | | Classroom |  |  |  | | Ms. Mitrovich’s desk |  |  |  | | Mr. Madonna’s desk |  |  |  | | Student desk |  |  |  | |
| 4. The St. Louis Arch is 256 ft tall and 256 ft wide. Determine a scale factor and create a scale drawing. |
| 5. Muchin is looking to expand and wants to build a bridge across State Street. From Ms. Ramos/ Ms. Mitrovich/ Mr. B’s classroom across State is 120 ft. Design a bridge that would reach across- create a side view. Use the images below for inspiration. Measure each member and label it with the original size. Be sure to include the scale factor!  http://kmharlan.weebly.com/uploads/2/5/2/7/25274160/4467455_orig.gif |



